

Gufeng Wang

List of Publications by Year in descending order

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49
papers

2,076
citations

279701

23
h-index

233338

45
g-index

51
all docs

51
docs citations

51
times ranked

2943
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular machines open cell membranes. <i>Nature</i> , 2017, 548, 567-572.	13.7	257
2	Single Cell Optical Imaging and Spectroscopy. <i>Chemical Reviews</i> , 2013, 113, 2469-2527.	23.0	250
3	Resolving Rotational Motions of Nano-objects in Engineered Environments and Live Cells with Gold Nanorods and Differential Interference Contrast Microscopy. <i>Journal of the American Chemical Society</i> , 2010, 132, 16417-16422.	6.6	156
4	Mixed Monolayers on Gold Nanoparticle Labels for Multiplexed Surface-Enhanced Raman Scattering Based Immunoassays. <i>Analytical Chemistry</i> , 2009, 81, 9643-9650.	3.2	120
5	Single Particle Orientation and Rotation Tracking Discloses Distinctive Rotational Dynamics of Drug Delivery Vectors on Live Cell Membranes. <i>Journal of the American Chemical Society</i> , 2011, 133, 5720-5723.	6.6	96
6	An exonuclease I-based label-free fluorometric aptasensor for adenosine triphosphate (ATP) detection with a wide concentration range. <i>Biosensors and Bioelectronics</i> , 2015, 63, 311-316.	5.3	83
7	Optical imaging of non-fluorescent nanoparticle probes in live cells. <i>Analyst</i> , 2010, 135, 215-221.	1.7	73
8	Wavelength-Dependent Differential Interference Contrast Microscopy: Selectively Imaging Nanoparticle Probes in Live Cells. <i>Analytical Chemistry</i> , 2009, 81, 9203-9208.	3.2	66
9	Determining the Full Three-Dimensional Orientation of Single Anisotropic Nanoparticles by Differential Interference Contrast Microscopy. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7734-7738.	7.2	61
10	Rotational dynamics of cargos at pauses during axonal transport. <i>Nature Communications</i> , 2012, 3, 1030.	5.8	59
11	Three-Dimensional Super-Localization and Tracking of Single Gold Nanoparticles in Cells. <i>Analytical Chemistry</i> , 2012, 84, 4111-4117.	3.2	57
12	β -Cyclodextrin functionalized Mn-doped ZnS quantum dots for the chiral sensing of tryptophan enantiomers. <i>Polymer Chemistry</i> , 2015, 6, 591-598.	1.9	57
13	Characteristic rotational behaviors of rod-shaped cargo revealed by automated five-dimensional single particle tracking. <i>Nature Communications</i> , 2017, 8, 887.	5.8	53
14	Unimolecular Submersible Nanomachines. <i>Synthesis, Actuation, and Monitoring</i> . <i>Nano Letters</i> , 2015, 15, 8229-8239.	4.5	47
15	Probing Strong Adsorption of Solute onto C18-Silica Gel by Fluorescence Correlation Imaging and Single-Molecule Spectroscopy under RPLC Conditions. <i>Analytical Chemistry</i> , 2005, 77, 2303-2310.	3.2	43
16	Tuning donut profile for spatial resolution in stimulated emission depletion microscopy. <i>Review of Scientific Instruments</i> , 2013, 84, 043701.	0.6	42
17	Near-Infrared Light Activates Molecular Nanomachines to Drill into and Kill Cells. <i>ACS Nano</i> , 2019, 13, 6813-6823.	7.3	39
18	Harnessing Hot Electrons from Near IR Light for Hydrogen Production Using Pt-End-Capped-AuNRs. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 25962-25969.	4.0	35

#	ARTICLE	IF	CITATIONS
19	Revealing Rotational Modes of Functionalized Gold Nanorods on Live Cell Membranes. <i>Small</i> , 2013, 9, 785-792.	5.2	33
20	Dynamin-dependent vesicle twist at the final stage of clathrin-mediated endocytosis. <i>Nature Cell Biology</i> , 2021, 23, 859-869.	4.6	32
21	Autocalibrated Scanning-Angle Prism-Type Total Internal Reflection Fluorescence Microscopy for Nanometer-Precision Axial Position Determination. <i>Analytical Chemistry</i> , 2010, 82, 2441-2447.	3.2	31
22	New dinuclear ruthenium arene complexes containing thiosemicarbazone ligands: synthesis, structure and cytotoxic studies. <i>Dalton Transactions</i> , 2016, 45, 19329-19340.	1.6	30
23	Effect of doping Ge into Y ₂ O ₃ :Ho,Yb on the green-to-red emission ratio and temperature sensing. <i>Dalton Transactions</i> , 2018, 47, 11158-11165.	1.6	26
24	Review of recent developments in stimulated emission depletion microscopy: applications on cell imaging. <i>Journal of Biomedical Optics</i> , 2014, 19, 080901.	1.4	24
25	Investigating Diffusing on Highly Curved Water/Oil Interface Using Three-Dimensional Single Particle Tracking. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8023-8032.	1.5	21
26	Harnessing Plasmon-Induced Hot Carriers at the Interfaces With Ferroelectrics. <i>Frontiers in Chemistry</i> , 2019, 7, 299.	1.8	20
27	Three-Dimensional Single Particle Tracking and Its Applications in Confined Environments. <i>Annual Review of Analytical Chemistry</i> , 2020, 13, 381-403.	2.8	20
28	Control of Antigen Mass Transport via Capture Substrate Rotation: Binding Kinetics and Implications on Immunoassay Speed and Detection Limits. <i>Analytical Chemistry</i> , 2009, 81, 6175-6185.	3.2	19
29	Detecting and Tracking Nonfluorescent Nanoparticle Probes in Live Cells. <i>Methods in Enzymology</i> , 2012, 504, 83-108.	0.4	19
30	Microscopic Movement of Slow-Diffusing Nanoparticles in Cylindrical Nanopores Studied with Three-Dimensional Tracking. <i>Analytical Chemistry</i> , 2016, 88, 5122-5130.	3.2	18
31	Investigation of NIR-to-red upconversion luminescence mechanism in Y ₂ O ₃ :Er ³⁺ ,Yb ³⁺ and the effect of co-doping Zn in the matrix. <i>Journal of Luminescence</i> , 2017, 192, 982-989.	1.5	16
32	Diffusion of Nanocars on an Air/Glass Interface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19025-19036.	1.5	15
33	Moving Kinetics of Nanocars with Hydrophobic Wheels on Solid Surfaces at Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10887-10894.	1.5	14
34	Anisotropic Overgrowth of Palladium on Gold Nanorods in the Presence of Salicylic Acid Family Additives. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1876-1883.	1.5	14
35	Composite Ferroelectric and Plasmonic Particles for Hot Charge Separation and Photocatalytic Hydrogen Gas Production. <i>ACS Applied Energy Materials</i> , 2018, 1, 4606-4616.	2.5	14
36	Developing Noise-Resistant Three-Dimensional Single Particle Tracking Using Deep Neural Networks. <i>Analytical Chemistry</i> , 2018, 90, 10748-10757.	3.2	14

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37	Interfacing Plasmonic Nanoparticles with Ferroelectrics for Hot-Carrier-Driven Photocatalysis: Impact of Schottky Barrier Height. ACS Applied Energy Materials, 2019, 2, 7690-7699.	2.5	14
38	Rotationally Induced Hydrodynamics: Fundamentals and Applications to High-Speed Bioassays. Annual Review of Analytical Chemistry, 2010, 3, 387-407.	2.8	12
39	Continuous-Wave Stimulated Emission Depletion Microscope for Imaging Actin Cytoskeleton in Fixed and Live Cells. Sensors, 2015, 15, 24178-24190.	2.1	11
40	Imaging Single Molecular Machines Attached with Two BODIPY Dyes at the Airâ€“Solid Interface: High Probability of Single-Step-Like Photobleaching and Nonscaling Intensity. Journal of Physical Chemistry C, 2016, 120, 26522-26531.	1.5	11
41	Electrophoretic Migration and Axial Diffusion of Individual Nanoparticles in Cylindrical Nanopores. Journal of Physical Chemistry C, 2012, 116, 18460-18468.	1.5	10
42	Tuning green-to-red ratio of Ho ³⁺ /Yb ³⁺ activated GdPO ₄ upconversion luminescence through Eu ³⁺ doping. Journal of Luminescence, 2018, 199, 188-193.	1.5	8
43	Resolving cargo-motor-track interactions with bifocal parallax single-particle tracking. Biophysical Journal, 2021, 120, 1378-1386.	0.2	8
44	Investigating axial diffusion in cylindrical pores using confocal singleâ€“particle fluorescence correlation spectroscopy. Electrophoresis, 2016, 37, 2129-2138.	1.3	5
45	Nanosecond Timeâ€“Resolution Study of Gold Nanorod Rotation at the Liquidâ€“Solid Interface. ChemPhysChem, 2016, 17, 2218-2224.	1.0	5
46	Enhancing Photostability of Fluorescent Dye-Attached Molecular Machines at Airâ€“Glass Interface Using Cyclooctatetraene. Journal of Physical Chemistry C, 2019, 123, 3011-3018.	1.5	5
47	Study on selfâ€“assembly of colloidal particles at high ionic strength with stimulated emission depletion microscopy. Engineering Reports, 2020, 2, e12233.	0.9	3
48	Three-Dimensional Heterogeneous Structure Formation on a Supported Lipid Bilayer Disclosed by Single-Particle Tracking. Langmuir, 2018, 34, 11857-11865.	1.6	2
49	Optical properties of segmented Agâ€“Au wire at single particle level studied with a homeâ€“built microâ€“spectrometer. Engineering Reports, 0, , e12439.	0.9	1